

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

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### TRANSMITTAL

DATE: 11-4-05  
TO: Genny  
COMPANY: Alaskan Copper PROJECT ID: Acid Tanks  
FAX #: \_\_\_\_\_ PHONE #: \_\_\_\_\_  
FROM: Charlene

We are sending you the following:

# Pages/Documents (including cover sheet)	Description
	<u>Handcopy of ARI report</u>

These are transmitted as indicated:

- ☐ For your use
 ☐ For review and comment
 ☐ For your signature and return  
☐ As requested
 ☐ As noted
 ☐ Other \_\_\_\_\_

Remarks: \_\_\_\_\_

For items sent via Fax:

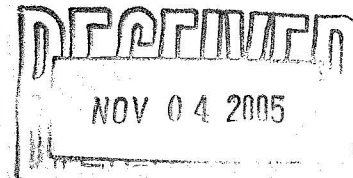
Original: Will Follow ☐ Will Not Follow ☐

### IMPORTANT

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**Analytical Resources, Incorporated**  
Analytical Chemists and Consultants



November 3, 2005

Charlene Morrow  
Friedman & Bruya  
3012 - 16<sup>th</sup> Avenue West  
Seattle, WA 9819-2029

**RE: Project: 510195 PO# G-785**  
**ARI Job: IQ83**

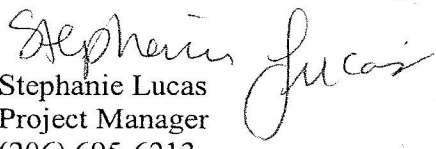
Dear Charlene,

Please find enclosed the original chain of custody record and analytical results for the above referenced project. Analytical Resources, Inc. accepted two acid samples on October 20, 2005. There were no discrepancies between the COC and the sample container labels.

The samples were analyzed for fluoride, as requested on the COC. The samples were run at a 10,000X dilution to achieve reportable fluoride concentrations. Due to the nature of the matrix, the samples were not analyzed on the IC instrument by method 300.0, but by method 340.2.

No analytical complications were noted. Quality control analysis results are included for your review. Copies of the reports and all associated raw data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,  
ANALYTICAL RESOURCES, INC.

  
Stephanie Lucas  
Project Manager  
(206) 695-6213  
[www.arilabs.com](http://www.arilabs.com)

Enclosures

IQ83

## SAMPLE CHAIN OF CUSTODY

19.5 - NO ICG

Send Report To Charlene MorrowCompany F&BIAddress see below

City, State, ZIP \_\_\_\_\_

Phone # \_\_\_\_\_ Fax # \_\_\_\_\_

SAMPLERS (signature)

PROJECT NAME/NO.

510195

PO #

G-785

REMARKS

Page # \_\_\_\_\_ of \_\_\_\_\_

TURNAROUND TIME

☒ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						O&G by 1664 no silica	Total Hg by 7470/7471	Total As, Cu, Pb, Zn by 6020	TCLP Hg by 7470 (sample is TCLP extract)	Total RCRA Metals by 6020/7470	Fluoride by 300.0					
M-107129A Sm. Tank		10-20-05	1120	acid	1						X					
M-107129B Lg. Tank		10-20-05	1120	acid	1						X					

Friedman &amp; Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Charlene Morrow

ERIC BRANSON

F&amp;BI

ART

10-20-05

10/20/05

1430


1700

AKC-0007677

454

METHOD BLANK RESULTS-CONVENTIONALS  
IQ83-Friedman & Bruya, Inc.



Matrix: Acid  
Data Release Authorized:   
Reported: 10/27/05

Project: G-785  
Event: 510195  
Date Sampled: NA  
Date Received: NA

Analyte	Method	Date	Units	Blank
Fluoride	EPA 340.2	10/25/05	mg/L	< 0.10 U

Water Method Blank Report-IQ83

AKC-0007678

SAMPLE RESULTS-CONVENTIONALS  
IQ83-Friedman & Bruya, Inc.



Matrix: Acid  
Data Release Authorized: *[Signature]*  
Reported: 10/27/05

Project: G-785  
Event: 510195  
Date Sampled: 10/20/05  
Date Received: 10/20/05

Client ID: M-107129A Sm. Tank  
ARI ID: 05-18117 IQ83A

Analyte	Date Batch	Method	Units	RL	Sample
Fluoride	10/25/05 102505#1	EPA 340.2	mg/L	1,000	37,400

RL Analytical reporting limit  
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS  
IQ83-Friedman & Bruya, Inc.



Matrix: Acid  
Data Release Authorized: *[Signature]*  
Reported: 10/27/05

Project: G-785  
Event: 510195  
Date Sampled: 10/20/05  
Date Received: 10/20/05

Client ID: M-107129B Lg. Tank  
ARI ID: 05-18118 IQ83B

Analyte	Date Batch	Method	Units	RL	Sample
Fluoride	10/25/05 102505#1	EPA 340.2	mg/L	1,000	68,800

RL Analytical reporting limit  
U Undetected at reported detection limit

STANDARD REFERENCE RESULTS-CONVENTIONALS  
IQ83-Friedman & Bruya, Inc.



Matrix: Acid  
Data Release Authorized: *[Signature]*  
Reported: 10/27/05

Project: G-785  
Event: 510195  
Date Sampled: NA  
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Fluoride ERA #02014	EPA 340.2	10/25/05	mg/L	5.27	5.00	105.4%

REPLICATE RESULTS-CONVENTIONALS  
IQ83-Friedman & Bruya, Inc.



Matrix: Acid  
Data Release Authorized: *[Signature]*  
Reported: 10/27/05

Project: G-785  
Event: 510195  
Date Sampled: 10/20/05  
Date Received: 10/20/05


Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: IQ83A Client ID: M-107129A Sm. Tank						
Fluoride	EPA 340.2	10/25/05	mg/L	37,400	36,100	3.5%

Water Replicate Report-IQ83



MS/MSD RESULTS-CONVENTIONALS  
IQ83-Friedman & Bruya, Inc.



Matrix: Acid  
Data Release Authorized:   
Reported: 10/27/05

Project: G-785  
Event: 510195  
Date Sampled: 10/20/05  
Date Received: 10/20/05

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: IQ83A Client ID: M-107129A Sm. Tank							
Fluoride	EPA 340.2	10/25/05	mg/L	37,400	75,700	40,000	95.8%